JC10 Rec'd PCT/PTO 08 JUN 2005

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TRANSMITTAL LETTER TO THE UNITED STATES ATTORNEY'S DOCKET NUMBER DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL FILING December 2003 PRIORITY DATE CLA 10 December CLAIMED 2002 TITLE OF INVENTION METHOD BEOR MODELLING HYDRODYNAMIC CHARACTERISTICS OF MULTIPHASE Isabelle REY-FABRET, et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). X has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. X An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.) 371(c)(5)). 10. ___ Items 11 to 20 below concern document(s) or information included: 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. X An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3,28 and 3,31 is included. 13. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. 16. X A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. L A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. L A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). Figs. 1-2; Request for Examination and Search Form and 20. X

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO-1390 (Rev. 12-2004)
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|--|--|---|--|-------------------|----------------------|--|--------------------------------------|
| U.S. APPLICATION OF (ICKNOWN Company of 17 6FF 1.5) INTERNATIONAL APPLICATION NO. | | | | | | ATTORNEY'S DOCKET NUMBER 612.45082X00 | |
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| | ing fees are submitted: | | | - | | Applicant use | Office use only |
| X a) Basic national fee \$300.00 | | | | | | \$ 300.00 | |
| b) Examination fee \$200.00 | | | | | \$ 200.00 | | |
| X c) Search fee \$500.00 | | | | | \$500.00 | | |
| | TOTAL OF ABOVE CA | LCULATION | IS = | | \$1000.00 | \$1000.00 | |
| listing or co | ee for specification and d imputer program listing fil to sheets of paper or frac | ed in an elec | in paper over 100 sheets (dronic medium). The fee is | exclud \$250 t | na seguence | | |
| Total Sheets Extra sheets | | Number of each additional 50 or fraction thereof (round up to a whole number) | | tion er) | RATE | | |
| - 100 = | /50 = | | | | × \$250.00 | \$ | |
| Surcharge of \$13 | 30.00 for furnishing the o | ath or declar | ation later than 30 months | from th | e earliest | | |
| CLAIMS | date (37 CFR 1.492(e)). | | | | | \$ | |
| | NUMBER FII | | NUMBER EXTRA | <u> </u> | RATE | \$ | |
| Total claims | 4 | - 20 = | 0 | × | \$50.00 | \$0.00 | |
| Independent clai | | - 3 = | 0 | × | \$200.00 | \$0.00 | |
| MULTIPLE DEP | MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00 | | | | | \$0.00 | |
| C Andiana | TOTAL OF ABOVE CALCULATIONS = Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced | | | | | | |
| by 1/2. | alms small entity status. | See 37 CFF | R 1.27. The fees indicated a | bove a | re reduced | \$ | |
| SUBTOTAL = | | | | | | \$ 1000.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | | | \$ | |
| TOTAL NATIONAL FEE = | | | | | | \$ 1000.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | | | | | \$ 40.00 | |
| | | | TOTAL | FEES | ENCLOSED = | \$1040.00 | |
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| a. L. A ched | k in the amount of \$ | | to cover the ab | ove fee | es is enclosed. | | |
| b. L. Please A dupli | e charge my Deposit According to the copy of this sheet is | ount No enclosed. | in the amount of | \$ | to co | over the above fees. | |
| c. X The Co | mmissioner is hereby aut to $01-2135$. A du | thorized to ci | harge any additional fees words of this sheet is enclosed. | hich m | ay be required, | or credit any overpaymen | t to Deposit |
| d. X Fees at be incl | re to be charged to a creduded on this form. Prov | dit card. WAI | RNING: Information on this rd information and authorized | form n | nay become put | olic. Credit card informat | lon should not |
| NOTE: Where a | | under 37 C | FR 1.495 has not been me | | | (37 CFR 1.137(a) or (b)) | must be filed |
| | RESPONDENCE TO: | | penang status. | | 1 | | |
| | | - C 77 | | | | | |
| Antonelli, Terry, Stout & Kraus, LLP 1300 North Seventeenth Street SIGNATURE | | | | | | | |
| Suite 1800 Alan E. | | | | | | Schiavelli | |
| Arlington, Virginia 22209 NAME | | | | | | | |
| Customer No. 020/57 | | | 32,087 | ON NUMBER | | | |
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ATTACHMENT

| International Application No. PCT/FR2003/003583 | 1 | Attorney Docket No. 612.45082X00 | |
|---|---|-------------------------------------|--|
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- 1. International Publication No. WO 2004/063983 A2- Full Copy
- 2. Notification of Receipt of Record Copy
- 3. Notification Concerning Submission or Transmittal of Priority Document
- 4. Notice Informing the Application of the Communication of the International Application to the Designated Offices
- 5. International Search Report

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Isabelle REY-FABRET, et al.

, Application No.:

Not Yet Assigned

Filed:

June 8, 2005

For:

METHOD FOR MODELLING HYDRODYNAMIC CHARACTERISTICS OF MULTIPHASE FLOWS

BY NEURAL NETWORKS

REQUEST FOR EXAMINATION AND SEARCH

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 June 8, 2005

Sir:

Applicants respectfully request that a search and examination be conducted in the above-identified application. The necessary search fee and examination fee are enclosed herewith.

Please charge any shortage in the fees due in connection with the filing of this paper, including excess claim fees, to Deposit Account No. 01-2135 (referencing case No. 612.45082X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

Alan E. Schiavelli

Registration No. 32,087

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